SIEMENS

Data sheet 3RF2320-1BA26



Solid-state contactor 1-phase 3RF2 AC 15 / 12 A / 40 $^{\circ}\text{C}$ 48-600 V / 110-230 V AC Instantaneous switching

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
_1 of the accessories that can be ordered	3RF2900-3PA88
_2 of the accessories that can be ordered	3RF2920-0HA36
_4 of the accessories that can be ordered	3RF2920-0GA36
product designation	
_1 of the accessories that can be ordered	terminal cover
_2 of the accessories that can be ordered	power regulator
_4 of the accessories that can be ordered	load monitoring
General technical data	
product function	instantaneous switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	20 W
 at AC in hot operating state per pole 	20 W
without load current share typical	3.5 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	AC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to EN 61346-2	Q
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main circuit	
number of poles for main current circuit	1
number of NO contacts for main contacts	1
number of NC contacts for main contacts	0
operating voltage at AC	
at 50 Hz rated value	48 600 V
at 60 Hz rated value	48 600 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
● at 50 Hz	40 660 V
● at 60 Hz	40 660 V
operational current	
• at AC-51 rated value	20 A

at AC-51 according to IEC 60947-4-3	13.2 A		
according to UL 508 rated value	12 A		
operational current minimum	500 mA		
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/μs		
blocking voltage at the thyristor for main contacts maximum permissible	1 600 V		
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value	600 A		
I2t value maximum	1 800 A²-s		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage 1 at AC			
● at 50 Hz	110 230 V		
● at 60 Hz	110 230 V		
control supply voltage frequency			
• 1 rated value	50 Hz		
2 rated value	60 Hz		
control supply voltage at AC			
 at 50 Hz full-scale value for signal<0> recognition 	40 V		
• at 60 Hz full-scale value for signal<0> recognition	40 V		
control supply voltage			
at AC initial value for signal <1> detection	90 V		
symmetrical line frequency tolerance	5 Hz		
control current at minimum control supply voltage			
• at AC	2 mA		
control current at AC rated value	15 mA		
ON-delay time	40 ms		
OFF-delay time	40 ms; additionally max. one half-wave		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	0		
number of NO contacts for auxiliary contacts	0		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts			
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions	0		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method	0 0 screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting	0 0 screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the	0 0 screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment	0 0 screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes		
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number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height	0 0 screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 95 mm		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width	0 0 screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 95 mm 22.5 mm		
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main contacts					
tightening torque	2 2 5 N m				
for main contacts with screw-type terminals		2 2.5 N·m			
 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m				
tightening torque [lbf·in]					
 for main contacts with screw-type terminals 	18 22 lbf·in				
 for auxiliary and control contacts with screw-type terminals 	4.5 5.3 lbf·in				
design of the thread of the connection screw					
for main contacts	M4				
of the auxiliary and control contacts	M3				
stripped length of the cable					
for main contacts	7 mm				
 for auxiliary and control contacts 	7 mm				
afety related data					
protection class IP on the front according to IEC 60529	IP20				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
mbient conditions					
installation altitude at height above sea level maximum	1 000 m				
ambient temperature					
 during operation 	-25 +60 °C				
during storage	-55 +80 °C				
ectromagnetic compatibility					
conducted interference					
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2	2			
• due to conductor-earth surge according to IEC 61000-4-5	2 kV behavior criterion 2				
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2				
 due to high-frequency radiation according to IEC 61000- 4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1				
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2				
conducted HF interference emissions according to CISPR11	Class A for industrial environment				
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments				
hort-circuit protection, design of the fuse link					
manufacturer's article number					
 of gS fuse for semiconductor protection at NH design usable 	3NE1814-0				
 of full range R fuse link for semiconductor protection at cylindrical design usable 	<u>5SE1325</u>				
of back-up R fuse link for semiconductor protection at NH design usable	3NE8015-1				
ucaigii uaabic	3NC1032				
of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable	<u>3140 1032</u>				
of back-up R fuse link for semiconductor protection at	3NC1450				
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable of back-up R fuse link for semiconductor protection at 					
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC1450				
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC1450				
of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse	3NC1450 3NC2250				



Confirmation









Declaration of Conformity

Test Certificates other

Railway





Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2320-1BA26

Cax online generator

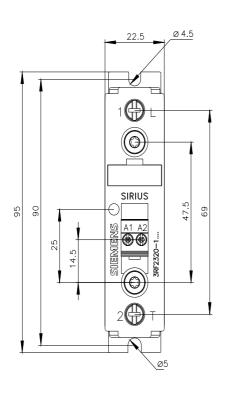
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1BA26

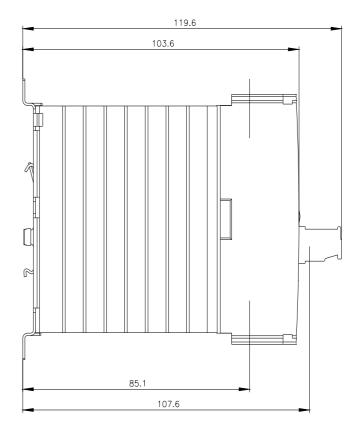
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

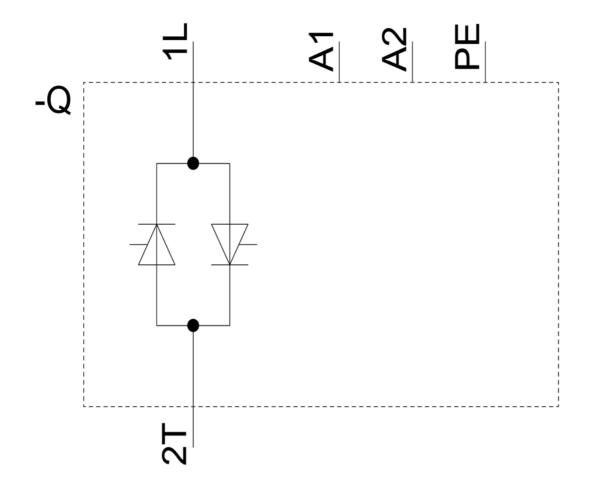
https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1BA26

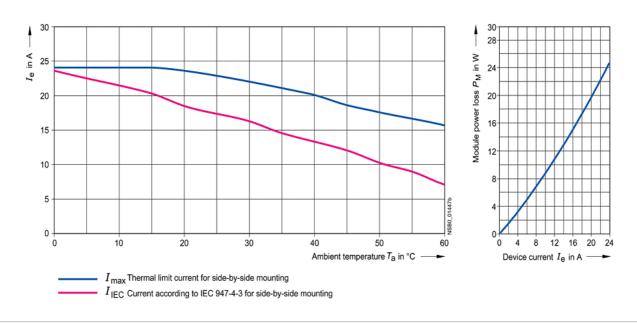
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2320-1BA26&lang=en

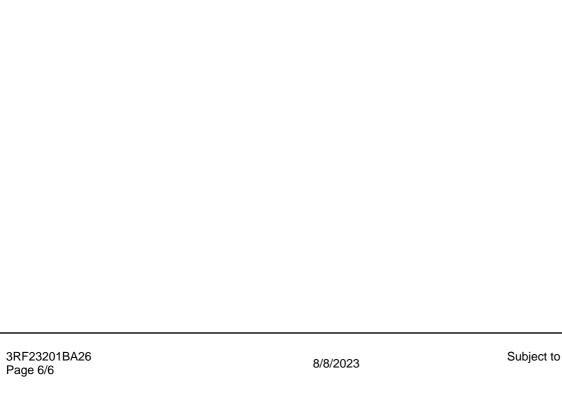








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